	SHEET INDEX CHART	
SHEET	DESCRIPTION	
SHEET 1	TITLE SHEET	
SHEET 2	SITE DEVELOPMENT PLAN	
SHEET 3	SEDIMENT AND EROSION CONTROL PLAN	
SHEET 4	DETAIL SHEET	
SHEET 5	SEDIMENT AND EROSION CONTROL NOTES & DETAILS	

BENCH MARK INFORMATION

HOWARD COUNTY CONTROL STA. 43C4 CONC. MONUMENT SET ELEV. 288.791 N 539,645.665 E 1,361,379.426

HOWARD COUNTY CONTROL STA. 47R1 CONC. MONUMENT SET ELEV. 282.370 N 539,734.805 E 1,363,098.871

SITE ANALYSIS DATA CHART

A. TOTAL PROJECT AREA: 2.041 ACRES OR 88.906 SQUARE FEET. B. AREA OF SUBMISSION: 2.041 ACRES OR 88,906 SQUARE FEET.

- C. LIMITS OF DISTURBANCE: 0.92 ACRES or 40,261 SQUARE FEET. D. PRESENT ZONING DESIGNATION: R-12. E. PROPOSED USES FOR SITE AND STRUCTURES:
- RESIDENTIAL/SINGLE FAMILY DETACHED F. APPLICABLE OPZ FILE REFERENCES:
- F = 07 = 102

·.			
1	1INIMUM	lot size	CHART
OT NO.	GRO55 AREA	PIPESTEM AREA	MINIMUM LOT SIZE
2	10,305 5Q. FT.	679 5Q. FT.	9,626 5Q. FT.
3	10,183 5Q. FT.	1,301 5Q. FT.	8,802 SQ. FT.
4	10,519 5Q. FT.	2,083 50. FT.	8,436 5Q. FT.

ADD	ress chart	
LOT NUMBER	STREET ADDRESS	
1	8807 ROSE LANE	
2	8805 ROSE LANE	
3	8803 ROSE LANE	_,
4	8801 ROSE LANE	

FISHER, COLLINS & CARTER, INC. VIL ENGINEERING CONSULTANTS & LAND SURVEYORS UARE OFFICE PARK ~ 10272 BALTHORE NATIONAL PT ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2855

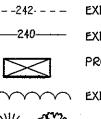
Professional Certification. licensed professional engineer 2010.

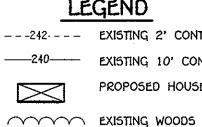
PROPOSED PERIMETER LANDSCAPE TREES UNDER F07-102. FOREST CONSERVATION SIGN

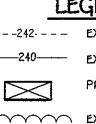
-240-PROPOSED 10' CONTOUR -----242----- PROPOSED 2' CONTOUR

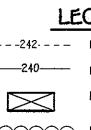


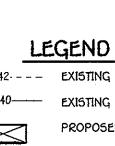
---242--- EXISTING 2' CONTOUR -240----- EXISTING 10' CONTOUR PROPOSED HOUSE









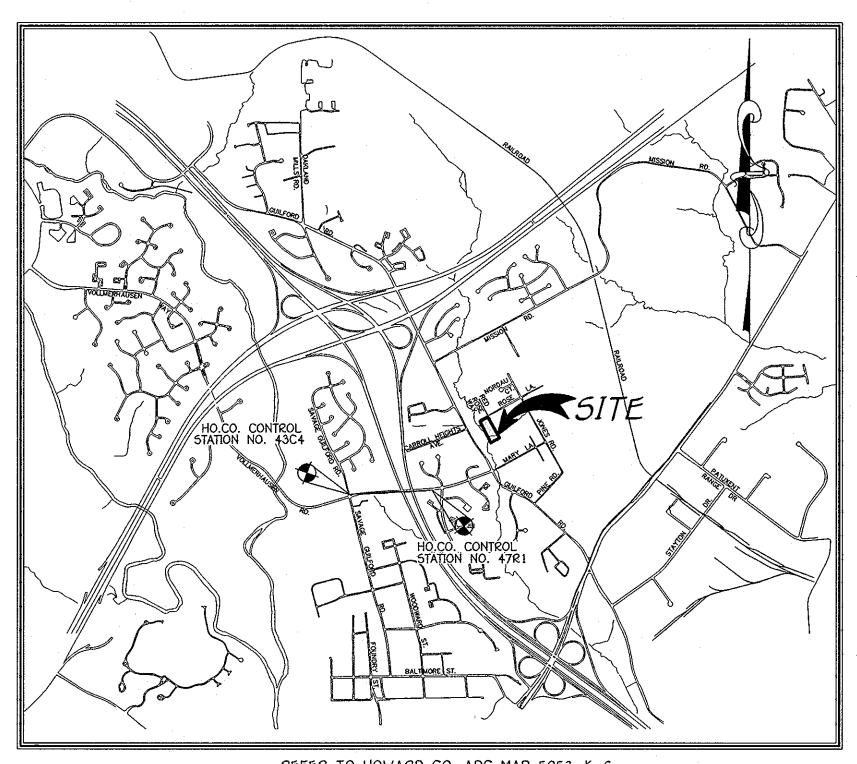


SITE DEVELOPMENT PLAN **ROSE MEADOWS**

ZONING: R-12

TAX MAP No. 42 GRID No. 24 PARCEL Nos. 133

SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



REFER TO HOWARD CO. ADC MAP 5053, K-6 VICINITY MAP SCALE: 1'' = 2000'

				SCALE: $1'' = 20'$				
reby certify that these documents were prepared or approved by me, and that I am under the laws of the State of Maryland, License No. 13204, Expiration Date: Novembo	a duly er 3,		······	OWNE	R/DEVELOPER		TITLE SHEE	Γ
P.E. 4/7/10 DATE	DATE	DESCRIPTION	· · · · · · · · · · · · · · · · · · ·	BEN C/O 8450 SAV SAVAGE	CHMARK HOMES CHRIS WHITEHEAD /AGE GUILFORD ROAL , MARYLAND 20763 0-792-0900	D	SINGLE FAMILY DETA ROSE MEADOV LOTS 1 THRU 4 AND OPEN	N 5
	Thomas	REVISION BLOCK T OF PLANNING AND ZONING States of Planning and Zoning		PROJECT ROSE MEADOWS	SECTION/AREA	PARCELS LOTS 133 1-5	PREVIOUS FILE NUMBER F-(ZONED: R-12 TAX MAP No.: 42 GRID N PARCEL No.: 133	07-102
	Chief, Division of Land	Development JW	<u> </u>	PLAT NO. BLOCK NO.	ZONE TAX MAP T R-12 42 SEWER CODE	ELEC. DIST. CENSUS TR. SIXTH 6069.01 322-5	SIXTH ELECTION DISTRICT HOWARD (COUNTY, MARYLAND PRIL 7, 2010 5DP-10-074

GENERAL NOTES

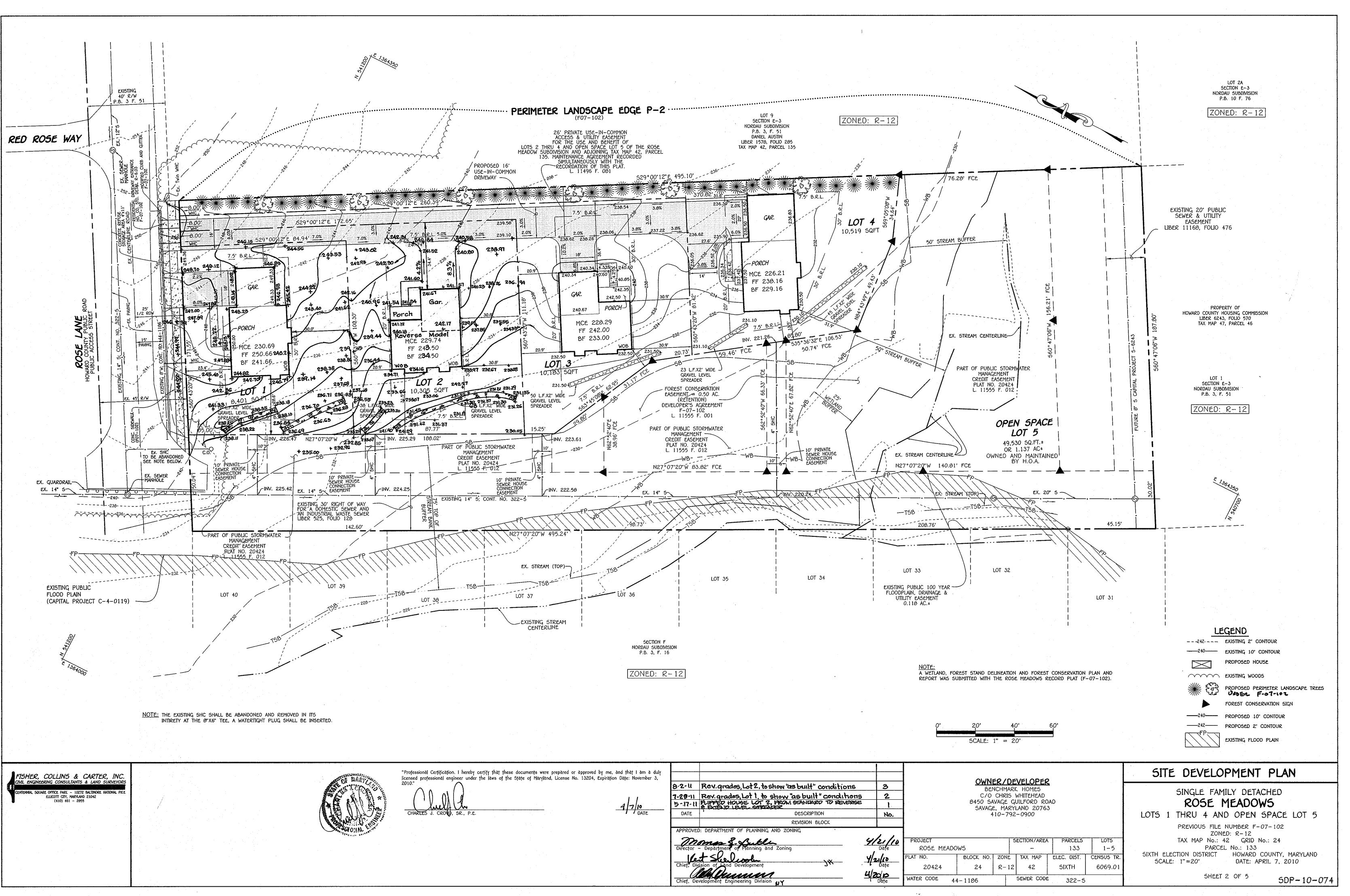
- 1. SUBJECT PROPERTY ZONED R-12 PER THE "COMP LITE" ZONING AMENDMENTS EFFECTIVE 7/28/06
- 2. DENSITY TABULATION: A. TOTAL AREA OF SITE = 2.041 ACRES
 - 8. TOTAL AREA OF FLOODPLAIN = 0.118 ACRES C. TOTAL AREA OF STEEP SLOPES = 0.000 ACRES
- 0. NET TRACT AREA = 2.041 ACRES 0.118 ACRES = 1.923 ACRES
- E. OPEN SPACE REQUIRED: 30% OF GROSS AREA = 0.61 ACRES F. OPEN SPACE PROVIDED: 55% OF GROSS AREA = 1.137 ACRES
- G. TOTAL NUMBER OF BUILDABLE LOTS PROPOSED = 4
- 3. COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 43C4 AND NO. 47R1. STA. 43C4 N 539,645.665 E 1,361,379.426
- STA. 47R1 N 539,734.805 E 1,363,098.871
- 5. THIS SUBDIVISION IS BASED ON RECORDED PLAT 20424, A RESUBDIVISION OF LOT 10, NORDAU SUBDIVISION. AND BY A FIELD RUN BOUNDARY SURVEY PERFORMED ON OR ABOUT JUNE, 2006, BY FISHER, COLLINS AND CARTER, INC.

6. THIS PROPERTY IS BASED ON FIELD RUN TOPOGRAPHY SURVEY PERFORMED ON OR ABOUT FEBRUARY 2010 BY FISHER, COLLINS AND CARTER, INC.

- 7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY ALONG WITH MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- 8. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF
- ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. 9. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO
- STARTING ANY EXCAVATION WORK. 10. B.R.L. DENOTES BUILDING RESTRICTION LINE.
- 11. USE-IN-COMMON DRIVEWAY(5) SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING (MINIMUM) REQUIREMENTS: A) WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE);
- B) SURFACE SIX (6") INCHES OF COMPACTED CRUSHER RUN BASE
- WITH TAR AND CHIP COATING. (1 1/2" MINIMUM); C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE
- AND 45-FOOT TURNING RADIUS; D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING
- 25 GROSS TONS (H25-LOADING);
- E) DRAINAGE ELEMENTS CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER SURFACE;
- F) STRUCTURE CLEARANCES MINIMUM 12 FEET; G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- 11. PLAT SUBJECT TO PREVIOUS DEPARTMENT OF PLANNING AND ZONING FILE NO. F-07-102. 12. NO CEMETERIES EXIST ON SITE BASED UPON A VISUAL SITE VISIT AND AN EXAMINATION OF THE HOWARD
- COUNTY CEMETERY INVENTORY MAP. 13. WETLANDS DELINATION AND REPORT WAS PREPARED NOVEMBER 19, 2006 BY ECO-SCIENCE
- PROFESSIONALS, INC.
- 14. THERE ARE NO STEEP SLOPES ON THIS SITE.

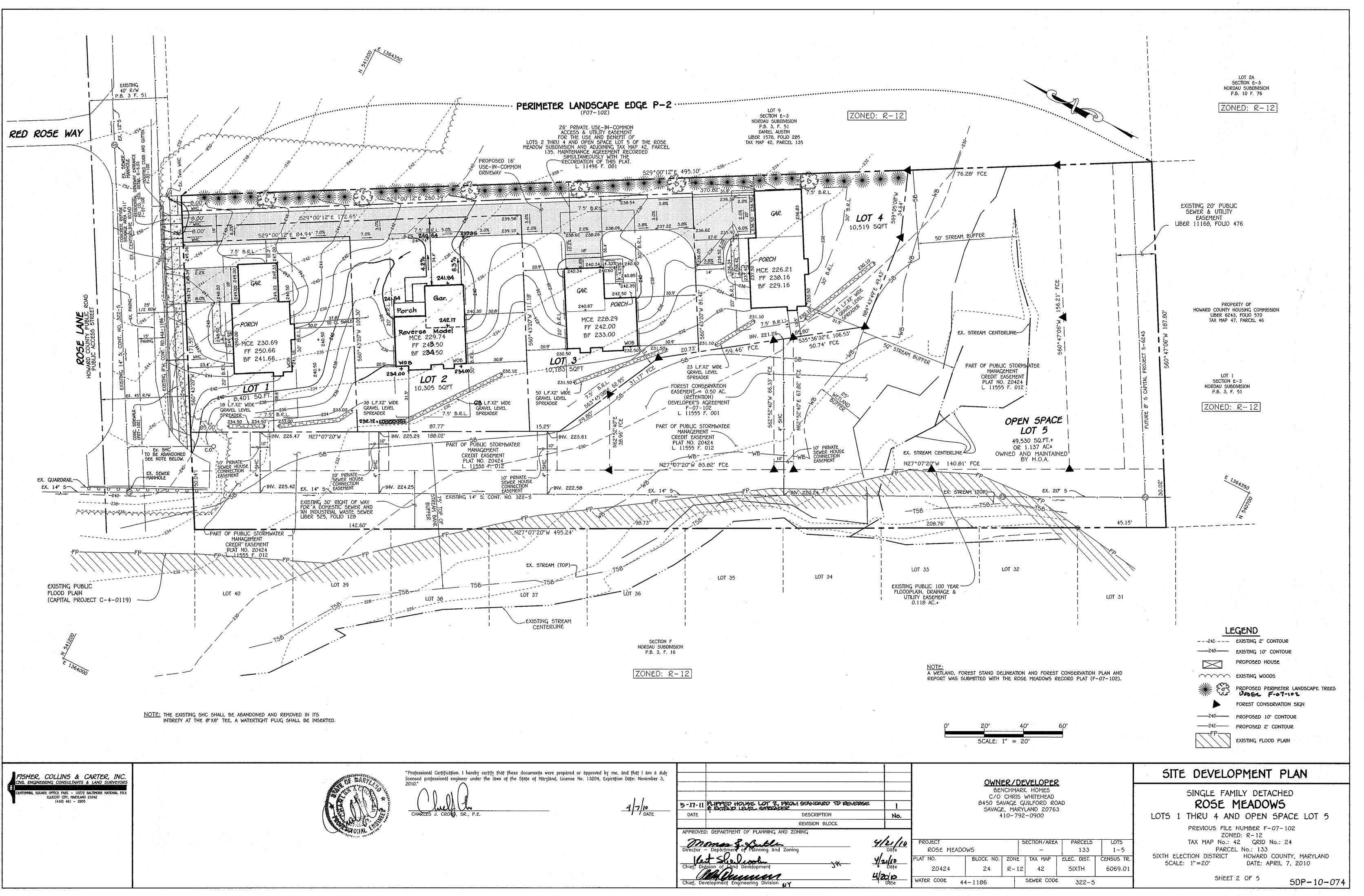
(F - 07 - 102).

- 15. THE 100-YEAR FLOODPLAIN SHOWN IS BASED ON CAPITAL PROJECT C-4-0119. 16. WETLANDS AND ASSOCIATED BUFFERS, STREAMS AND ASSOCIATED STREAM BANK BUFFERS, FOREST
- CONSERVATION EASEMENTS AND ASSOCIATED BUFFERS, 100-YEAR FLOODPLAINS AS NOTED ON RECORD PLAT #20424 ROSE MEADOWS.
- 17. A TRAFFIC STUDY IS NOT REQUIRED FOR THIS PROJECT SINCE IT IS A MINOR SUBDIVISION. 18. A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT DUE TO ROSE LANE BEING A PUBLIC ACCESS STREET.
- 18. LANDSCAPING FOR LOTS 1 THRU 4 IS PROVIDED IN ACCORDANCE WITH A CERTIFIED LANDSCAPE PLAN ON FILE WITH PLAT #20424 IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL LANDSCAPE SURETY IN THE AMOUNT OF \$7,500.00 (6 SHADE TREES X \$300.00/ TREE AND 38 EVERGREEN TREES X \$150.00/ TREE) WAS PROVIDED IN A DEVELOPER'S AGREEMENT UNDER FILE NUMBER FO7-102.
- 19. THE WATER QUALITY VOLUME (WQV), GROUNDWATER RECHARGE VOLUME (REV) STORMWATER MANAGEMENT REQUIREMENTS WERE ADDRESSED WITH THE 2000 STORMWATER MANAGEMENT DESIGN MANUAL BY APPLYING CRITERIA FOUND IN CHAPTER 5 STORMWATER CREDITS, SECTION 5.1 NATURAL AREA CONSERVATION CREDIT AND SECTION 5.4 SHEETFLOW TO BUFFER CREDIT. THIS SITE IS EXEMPT FROM PROVIDING CHANNEL PROTECTION VOLUME (CPV)BECAUSE THE CPV DISCHARGE FROM THE SITE DOES NOT EXCCED 2.0 C.F.S. 20. A MAINTENANCE AGREEMENT FOR THE PRIVATE USE-IN-COMMON DRIVEWAY ACCESS EASEMENT ACROSS AND
- WITHIN LOTS 1 THRU 4 FOR THE USE AND BENEFIT OF LOTS 1 THRU 4 AND OPEN SPACE LOT 5 IS RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY IN L. 11496 F. 081 21. OPEN SPACE LOT 5 SHOWN HEREON IS OWNED BY THE ROSE MEADOWS HOMEOWNERS ASSOCIATION, INC. FOR THE RESIDENTS OF THIS SUBDIVISION AND RECORDING REFERENCES OF THE DECLARATION OF
- COVENANTS. CONDITIONS AND RESTRICTIONS ARE RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY IN LIBER 11496 FOLIO 084. 22. FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE
- PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND THE ROAD RIGHT-OF-WAY AND NOT ONTO THE FLAG OR PIPESTEM LOT DRIVEWAY. 23. CONTRACTOR TO CHECK WATER AND SEWER HOUSE CONNECTIONS ELEVATIONS AT EASEMENT LINES PRIOR
- TO CONSTRUCTION. 24. ANY DAMAGE TO THE COUNTY'S RIGHT OF WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE. 25. THIS PLAN IS FOR HOUSE SITING AND GRADING ONLY. IMPROVEMENTS SHOWN WITHIN THE RIGHTS OF WAY
- OF THIS SITE DEVELOPMENT PLAN ARE NOT USED FOR CONSTRUCTION. 26. FOR DRIVEWAY ENTRANCE DETAILS REFER TO HO. CO. CODES MANUAL VOLUME IN DETAILS R.6.03.
- 27. IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS. CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACKS. 28. PUBLIC WATER (CONTRACT NO. 44-1186) AND SEWER (CONTRACT NO. 322-5) WILL BE USED WITHIN THIS
- SUBDIVISION. 29. IMPROVEMENTS FOR ROSE LANE INCLUDING ROAD WIDENING, CURB AND GUTTER, SIDEWALK AND STREET TREES ARE BONDED IN A DEVELOPER'S AGREEMENT UNDER FILE NUMBER F07-102.
- 30. FOREST CONSERVATION OBLIGATION, THE FOREST CONSERVATION REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT FOR THIS SUBDIVISION IS FULFILLED BY PROVIDING 0.50 ACRE OF FOREST RETENTION ON-SITE BY THE ESTABLISHMENT OF A FOREST
- CONSERVATION EASEMENT. A SURETY IN THE AMOUNT OF \$4,356.00 WAS PROVIDED IN A DEVELOPER'S AGREEMENT UNDER FILE NUMBER F07-102. 31. A PRIVATE RANGE OF ADDRESS SIGN ASSEMBLY SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY
- BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-5752 FOR DETAILS AND COST ESTIMATES. 32. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE
- PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN. 33. A PRE-SUBMISSION MEETING WAS HELD ON SEPTEMBER 12, 2006 AT THE SAVAGE LIBRARY FOR PLAN



0090/da2/gwb/60090/90(

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PLANTING SPECIFICATIONS

Plants, related material, and operations shall meet the detailed description as given on the plans and as described herein. All plant material, unless otherwise specified, shall be nursery grown, uniformly branched, have a vigorous root system, and shall conform to the species, size, root and shape shown on the plant list and the American Association of Nurserymen (AAN) Standards. Plant material shall be healthy, vigorous, free from defects, decay, disfiguring roots, sun scald injuries, abrasions of the bark, plant disease, insect pest eggs, borers and all forms of insect infestations or objectionable disfigurements. Plant material that is weak or which has been cut back from larger grades to meet specified requirements will be rejected. Trees with forked leaders will not be accepted. All plants shall be freshly dug; no healed-in plants from cold storage will be accepted.

Unless otherwise specified, all general conditions, planting operations, details and planting specification shall conform to "Landscape Specification Guidelines for Baltimore-Washington Metropolitan Areas", (hereinafter "Landscape Guidelines") approved by the Landscape Contractors Association of Metropolitan Washington and the Potomac Chapter of the American Society of Landscape Architect, latest edition, including all agenda.

Contractor shall be required to guarantee all plant material for a period of one year after date of acceptance in accordance with the appropriate section of the Landscape Guidelines Contractor's attention is directed to the maintenance requirements found within the one year specifications including watering and replacement of specified plant material.

Contractor shall be responsible for notifying utility companies, utility contractors and "Miss Utility" a minimum of 40 hours prior to beginning any work. Contractor may make minor adjustments in spacing and location of plant material to avoid conflicts with utilities. Damage to existing structure and utilities shall be repaired at the expense of the Contractor.

Protection of existing vegetation to remain shall be accomplished by the temporary installation of 4 foot high snow fence or blaze orange safety fence at the drip line.

Contractor is responsible for installing all material in the proper planting season for each plant type. All planting is to be completed within the growing season of completion of site construction. Bid shall be base on actual site conditions. No extra payment shall be made for work arising from site conditions differing

from those indicated on drawings and specifications. Plant quantities are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on plan and those shown on the plant list, the quantities on the plan take precedence.

All shrubs shall be planted in continuous trenches or prepared planting beds and mulched with composted hardwood mulch as details and specified except where noted on plans.

Positive drainage shall be maintained in planting beds (2 percent slope).

Planting mix shall be as follows: Deciduous Plants - Two parts topsoil, one part well-rotted cow or horse manure. Add 3 lbs. of standard fertilizer per cubic yard of planting mix. Evergreen Plants — two parts topsoil, one part humus or other approved organic material. Add 3 lbs. of evergreen (acidic) fertilizer per cubic yard of planting mix. Topsoil shall conform to the Landscape Guidelines.

Weed Control: Incorporate a pre-emergent herbicide into the planting bed following recommended rates on the label. Caution: Be sure to carefully check the chemical used to assure its adaptability to the specific ground cover to be treated. All areas within contract limits disturbed during or prior to construction not designated to receive plants and mulch shall be fine graded and seeded.

This plan is intended for landscape use only. See other plan sheets for more information on grading, sediment control, layout, etc.

	SCHEDULE A ·	- PERIMETER LANDS	CAPE EDGE		
PERIMETER	P-1	P-2	P-3	P-4	TOTAL
CATEGORY	ADJACENT TO ROADWAY	ADJACENT TO PERIMETER PROPERTIES	ADJACENT TO PERIMETER PROPERTIES	ADJACENT TO PERIMETER PROPERTIES	—
LANDSCAPE TYPE	N/A	D ·	A	A	
LINEAR FEET OF PERIMETER	171.55 L.F. "	495.00' L.F.	187.80 L.F.	495.24 L.F.	
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES	N/A	495'/60' = Ø 495'/10' = 50	187.80'/60' = 3 0	495.24'/60' = 8 0	
CREDIT FOR EXISTING VEGETATION SHADE TREES SMALL/MEDIUM DECIDUOUS TREES (2:1 SUBSTITUTION)	N/A	CREDIT FOR EXISTING WOODS 124.28'/60' = 2 124.28'/10' = 12	EXISTING WOODS (107.80' 187.80'/60'=3	EXISTING WOODS (495.24') 495.24'/60' = 8	
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES (2:10	N/A	ϑ REQUIRED - 2 CREDIT = 6 50 REQUIRED - 12 CREDIT = 3 ϑ		$(\emptyset \text{ REQUIRED} - \emptyset \text{ CREDIT}) = 0$ O	6 38

LANDSCAPING IS UNDER F-07-102

	LANDSCAPING PLANT LIST							
QTY.	KEY	NAME	SIZE					
6	E.S.	ACER RUBRUM 'OCTOBER GLORY' (OCTOBER RED MAPLE)	2 1/2"-3" CALIPER FULL CROWN B/B					
38	*	PINUS STROBUS EASTERN WHITE PINE	6' - 8' HGT					

BUILDER/DEVELOPER'S/CERTIFICATE

I/WE CERTIFY THAT THE REQUIRED LANDSCAPING WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF NOTICE ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE

DEPARTMENT OF PLANNING AND ZONING.

4-9-10 Date

Beachmark Hours, Inc.



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PROPOSED HOUSE

EXISTING WOODS FOREST CONSERVATION SIGN

-240 PROPOSED 10' CONTOUR -242 PROPOSED 2' CONTOUR

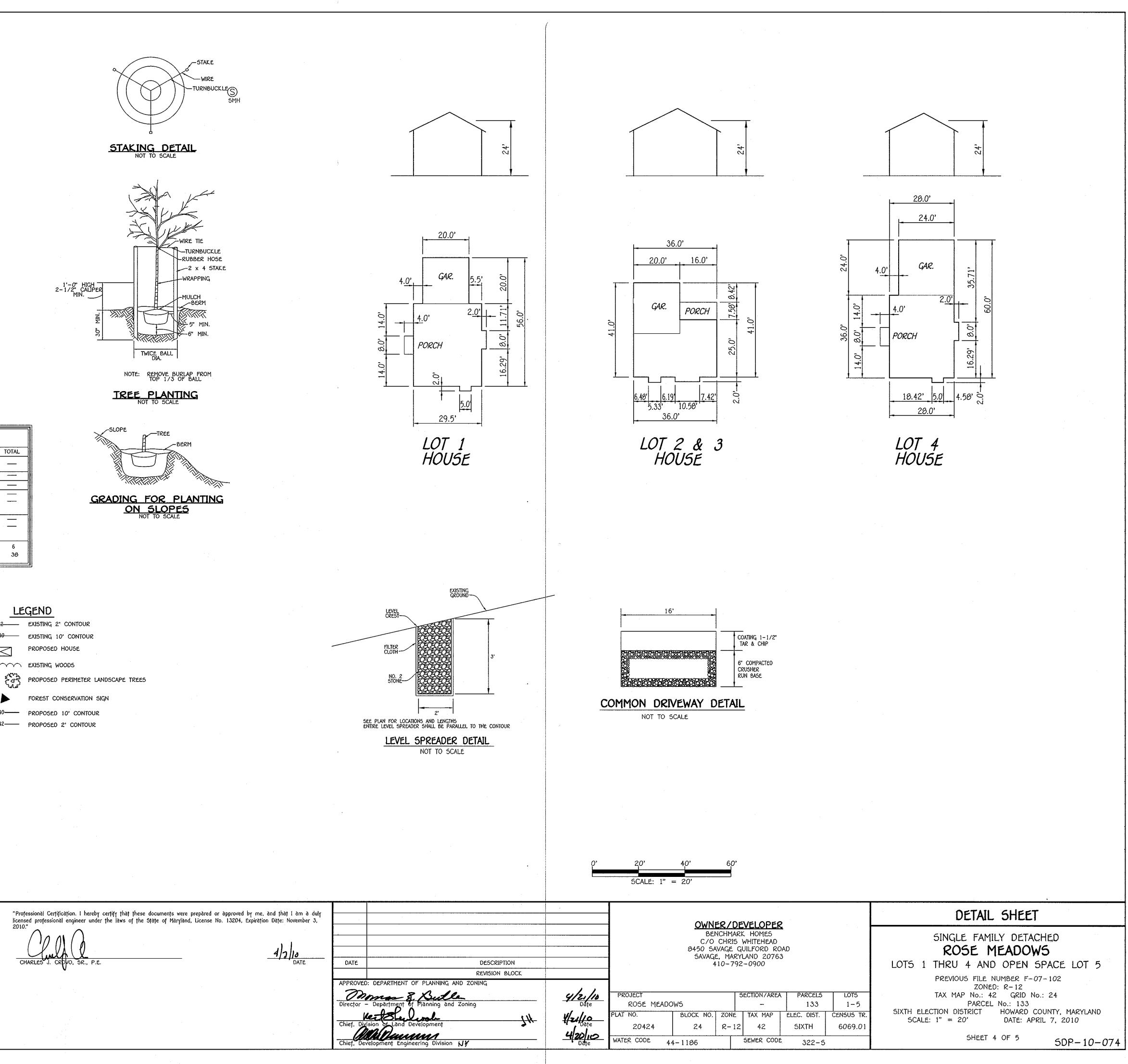
FISHER, COLLINS & CARTER, INC.

CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

tennial square office park - 10272 baltimore national pike ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2055

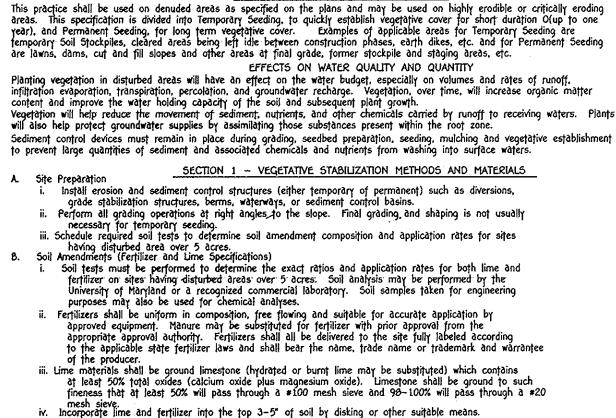
2010."

HARLES



20.0 STANDARDS AND SPECIFICATIONS	l Incremental Stabilization - Cut Slopes
FOR	i. All cuts slopes shall be dressed, prepared, seeded and mulched as the wo
VEGETATIVE STABILIZATION	shàll be excavated and stabilized in equal increments not to exceed 15'. ii. Construction seguence (Refer to Figure 3 below):
DEFINITION	 Excavate and stabilize all temporary swales, side ditches, or berms used to convey runoff from the excavation.
Using vegetation as cover for barren soil to protect it from forces that cause erosion.	b. Perform Phase 1 excevation, dress, and stabilize.

_____PURPOSE Vegetative stabilization specifications are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and run-off to downstream areas, and improving wildlife habitat and visual resources. CONDITIONS WHERE PRACTICE APPLIES



- A. Seedbed Preparation
 i. Temporary Seeding
 a. Seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the roughened condition. Sloped areas (greater than 3:1) should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope. Apply fertilizer and lime as prescribed on the plans. In corporate lime and fertilizer into the top 3-5° of soil by disking or other suitable means.
- ii. Permonent Seed Minimum soil conditions required for permanent vegetative establishment: 1. Soil pH shall be between 6.0 and 7.0.
 - Soluble salts shall be less than 500 parts per million (ppm). The soil shall contain less than 40% clay, but enough fine grained material (>30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if lovegrass or serecia lespedezas is to be planted, then a sandy soil (<30% sit
 - plus clay) would be acceptable. Soil shall contain 1.5% minimum organic matter by weight.
 - Soil must contain sufficient pore space to permit adequate root penetration If these conditions cannot be met by soils on site, adding topsoil is required
 - in accordance with Section 21 Standard and Specification for Topsoil. Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from
 - iding down a slope. Apply soil amendments as per soil test or as included on the plans. Mix soil amendments into the top 3-5" of topsoil by disking or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed and application. Where site conditions will not permit normal seedbed preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. The top $1-3^{\circ}$ of soil should be loose and friable. Seedbed loosening may not be necessary on newly disturbed areas
- D. Seed Specifications All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory. All seed used shall have been tested within the 6 months immediately preceding the date of sowing such material on this job. Note: Seed tags shall be made available to the inspector to verify type and rate of seed used. ii. Inoculant — The inoculant for treating legume seed in the seed mixtures shall be a pure culture of introgen-fixing bacteria prepared specifically for the species. Inoculants shall not be used later that
- the date indicated on the container. Add fresh inoculant as directed on package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75°-80° F. can weaken bacteria and make the inoculant less effectiv Methods of Seeding i. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeded, or a cultipacker seeder.

 - drop séeded, of a cultipacker seeder. If fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: nitrogen; maximum of 100 lbs. per acre total of soluble nitrogen; P205 (phosphorous); 200 lbs/ac; K20 (potassium): 200 lbs/ac. Lime use only ground agricultural limestone, (Up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding. Seed and fertilizer shall be mixed on site and seeding shall be done immediately and without intercution
 - Without interruption.
 A Seed spread dry shall be incorporated into the subsoil at the rates prescribed on the Temporary or Permanent Seeding Summaries or Tables 265 or 26. The seeded area shall then be rolled with a weighted roller to provide good seed to soil contact.
 b. Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.
- iii. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.
 a. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting. Where practical, seed should be applied in two directions perpendicular to each other Apply half the seeding rate in each direction. Mulch Specifications (in order of preference)
- Straw shall consist of thoroughly threshed wheat, rye or oat straw, reasonable bright in color, and shall not be musty, moldy, caked, decayed, or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law.
- ii. Wood Cellulose Fiber Mulch (WCFM) a. WCFM shall consist of specially prepared wood cellulose processed into a uniform fibrous physical state.
 - WCFM shall be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry. WCFM, including dye, shall contain no germination or growth inhibiting factors. WCFM materials shall be manufactured and processed in such a manner that the
 - wood cellulose fiber mulch will remain in uniform suspension in water under agitatio and will blend with seed, fertilizer and other additives to form a homogeneous slurry
 - moisture absorption and percolation properties and shall cover, on application, having moisture absorption and percolation properties and shall cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings. WCFM material shall contain no elements or compounds at concentration levels that will be phytol-toxic.
- Will be philor-jokc. f. WCFM must conform to the following physical requirements: fiber length to approximately 10 mm., diameter approximately 1 mm., pH range of 4.0 to 8.5, ash content of 1.6% maximum and water holding capacity of 90% minimum. Only sterile straw mulch should be used in areas where one species of grass is desired. Mulching Seeded Areas - Mulch shall be applied to all seeded areas immediately after seeding.
 If grading is completed outside of the seeding season, mulch along shall be applied as prescribed in this section and maintained until the seeding season returns and seeding can be performed in accordance with these specifications.
- ii. When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch shall be applied to a uniform loose depth of between 1° and 2°. Mulch applied shall achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch anchoring tool is to be used, the rate should be increased to 2.5 tons/acre.
- iii. Wood cellulose fiber used as a mulch shall be applied at a net dry weight of 1,500 lbs. per acre. The wood cellulose fiber shall be mixed with water.
 of wood cellulose fiber per 100 gallons of water.
 Securing Straw Mulch (Mulch Anchoring): Mulch anchoring shall be performed immediately following mulch. application to minimize loss by wind or water. This may be done by one of the following methods (listed b preference), depending upon size of area and erosion hazard:
- A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safety. If used on sloping land, this practice should be used on the contour if possible. Wood cellulose, fiber may be used for anchoring straw. The fiber binder shall be applied at a
- iii. Appli
- iv. Light

completing the operation out of the seeding season will necessitate the application of temporary stabilization. J. Incremental Stabilization of Embankments - Fill Slopes Embankments shall be constructed in lifts as prescribed on the plans. ii. Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches
 iii. Stopes shall be stabilized immediately when the vertical height of the multiple lifts reaches
 iii. At the end of each day, temporary berms and pipe slope drains should be constructed along the top edge of the embankment to intercept surface runoff and convey it down the slope in a non-erosive manner to account tabane down.

reas as necessan

- à sediment tràpping device. iv. Construction sequence: Refer to Figure 4 (below).
 - Fuction sequence: keyer to right 4 (below). Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff around the fill. Construct slope silt fence on low side of fill as shown in Figure 5, unless other methods shown on the plans address this area. Place Phase 1 embankment, dress and stabilize. Place Phase 2 embankment, dress and stabilize. Place final phase embankment, dress and stabilize. Place final phase embankment, dress and stabilize.

areas as necessary. Note: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization. SECTION 2 - TEMPORARY SEEDING

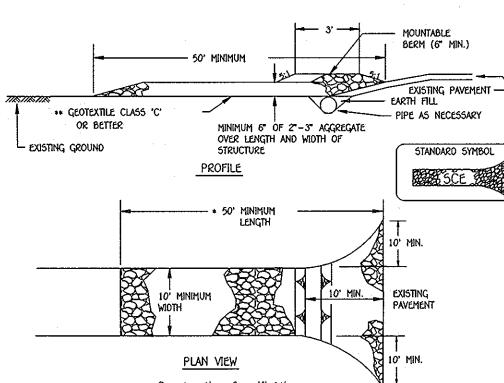
- Vegetation annual grass or grain used to provide cover on disturbed areas for up to 12 months. For longer duration of vegetative cover, Permanent Seeding is required. A. Seed mixtures - Temporary Seeding
- i. Select one or more of the species or mixtures listed in Table 26 for the appropriate Plant Hardiness Zone (from Figure 5) and enter them in the Temporary seeding summary below, along with application rates; seeding dates and seeding depths. If this summary is not put on the plans
- and completed then Table 26 must be put on the plans. ii. For sites having soil tests performed, the rates shown on this table shall be deleted and the rates
- Seed Mixture (Hardiness Zone <u>6a</u> Fert From Table 26 Rate (Ib/ac) Seeding Dates Seeding No. Species (10 Depths 3/15 - 5/318/1 - 10/31 1" - 2" 140 600 (15 lb BARLEY OR RYE PLUS. FOXTAIL. MILLOT 150 6/1 - 7/31

SECTION 3 - PERMANENT SEEDING

Seeding grass and legumes to establish groung cover for a minimum of one year on disturbed areas generally receiving low maintenance.

- A. Seed mixtures Permanent Seeding i. Select one or more of the species or mixtures listed in Table 25 for the appropriate Plant Hardiness Zone (from Figure 5) and enter them in the Permanent Seeding Summary below, along with applicatio rates and seeding dates. Seeding depths can be estimated using Table 26. If this summary is not put on the construction plans and completed, then Table 25 must be put on the plans. Additional planting specifications for exceptional sites such as shorelines, streambanks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-SCS Techinical Field Office Guide, Section
- Critical Area Planting. For special lawn maintenance areas, see Sections IV Sod and V Turfgrass. ii. For sites having disturbed area over 5 areas, the rates shown on this table shall be deleted and the rates recommended by the soil testing agency shall be written in.
- iii. For areas receiving low maintenance, apply ureaform fertilizer (46-0-0) at 3 1/2 lbs/1000 sq. ft. (150 lbs/ac), in addition to the above soil amendments shown in the table below, to be performed at the time of seeding.

	Seed Mixture (Hardiness Zone <u>6a</u>) From Table 25				Fertilizer Rate (10-20-20)			Lime Rate	
No	o. Species	Application Rate (lb/ac)	Seeding	Dates	Seeding Depths	N	P205	K20	
1	TALL FESCUE (85%) I KENTUCKY BLUEGRASS (5%) PERENNIAL RYEGRASS (10%)	125 15 10	3/15 - 8/1 - 1	6/1, 10/1	1" - 2"	(2.0 jb/	(4 b/	(4 lb/	2 tons/ac (100 lb/
2	A TALL FESCUE (80%) HARD FESCUE (20%)	120 30	3/15 - 8/1 -	6/1, 10/1	1" - 2"	1000sf)	1000sf)	1000sf)	(fa0001



- Construction Specification
- 1. Length minimum of 50' (*30' for single residence lot). 2. Width - 10' minimum, should be flared at the existing road to provide a turning
- 3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.
- 4. Stone crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- 5. Surface Water all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe ha to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required
- Location A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance

STABILIZED CONSTRUCTION ENTRANCE

 net dry weight of 750 pounds?acre. The wood cellulo the mixture shall contain a maximum of 50 pounds o of water. iii. Application of liquid binders should be heavier at the edg in valleys and crest of banks. The remainder of area application. Synthetic binders - such as Acrylic OLR II, Terra Tack AR or other approved equal may be use manufacturer to anchor mulch. iv. Lightweight plastic netting may be stapled over the mulk mendations. Netting is usually available in rolls 4' to 	es where wind catches mulch, such as should be appear uniform after binder (Agro-Tack), DCA-70 Petroset. Terra Tax d at rates recommended by the th according to manufacturer's recom-	50% + 2:1 + 50 feet 250 feet <u>SUPER SILT FENCE</u> NOT TO SCALE	·	EROSION CONTROL MATTING NOT TO SCALE		0' 20' 40' 60' 5CALE: 1" = 20'
ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2055	ENGINEER'S CERTIFICATE "I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District." Signature of Engineer	"Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 13204, Expiration Date: November 3, 2010." CHARLES J. CROVO, SR., P.E. DATE	DATE	DESCRIPTION	OWNER/DEVELOPER BENCHMARK HOMES C/O CHRIS WHITEHEAD 8450 SAVAGE GUILFORD ROAD SAVAGE, MARYLAND 20763 410-792-0900	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS SINGLE FAMILY DETACHED ROSE MEADOWS LOTS 1 THRU 4 AND OPEN SPACE LOT 5
	<u>DEVELOPER'S CERTIFICATE</u> "I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District." <u>Howard Soil Conservation District.</u> <u>Signature of Developer</u>	This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT. Howard SCD	APPROVED: DEPARTMENT OF PLANNING Director - Department of Flanning a Chief, Division of Land Development Chief, Development Engineering Divisi	Image: Second system Image: Second system Image: Second system Ima	PROJECT ROSE MEADOWSSECTION/AREA -PARCELS 133LOTS 1-5PLAT NO.BLOCK NO.ZONE 20424TAX MAP 24ELEC. DIST.CENSUS TR 6069.01WATER CODE44-1186SEWER CODE 322-5322-5	PREVIOUS FILE NUMBER F-07-102 ZONED: R-12 TAX MAP No.: 42 GRID No.: 24 PARCEL No.: 133 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: APRIL 7, 2010

opes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes

ccavate and stabilize all temporary swales, side ditches, or berms that will be sed to convey runoff from the excavation. rform Phase 1 excavation, dress, and stabilize.

erform Phase 2 excavation, dress and stabilize. Overseed Phase 1 areas as necessary. Perform final phase excavation, dress and stabilize. Overseed previously seeded

Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions int he operation of

recommended by the testing agency shall be written in. Soil tests are not required for Temporary Seeding.

tilizer ate - 10- 10]	Lime Ràțe
b/ac	2 †ons/àc
b/1000sf)	(100 lb/1000sf)

Definition

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation. Purpose

To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation. Conditions Where Practice Applies 1. This

practice is limited to areas having 2:1 or flatter slopes where: a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth. b. The soil material is so shallow that the rooting zone is not

deep enough to support plants or furnish continuing supplies of moisture and plant growth. c. The original soil to be vegetated contains material toxic to

plant growth. d. The soil is so acidic that treatment with limestone is not

fedsible. II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the

plans. Construction and Material Specifications I. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station. II. Topsoil Specifications - Soil to be used as topsoil must meet

the following: i. Topsoil shall be a loam, sandy loam, clay loam, sitt loam, sandy clay loam, loamy sand. Other soils may be used if

recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments. gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.

ii. Topsoil must be free of plants or plant parts such as Bermudā grass, guackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.

iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at a rate of 4-8tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures. II. For sites having disturbed areas under 5 acres:

i. Place topsoil (if required) and apply soil amendments as specified in 10.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

III. For sites having disturbed areas over 5 acres:

i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:

a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher. b. Organic content of topsoil shall be not less than 1.5 percent

by weight. c. Topsoil having soluble salt content greater than 500 parts per million shall not be used.

d. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural

ii. Place topsoil (if required) and apply soil amendments as specified in 10.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

V. Topsoil Application i. When topsoiling, maintain needed erosion and sediment control pràctices such às diversions. Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment

Traps and Basins. ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation

iii. Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.

iv. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below: i. Composted Sludge Material for use as a soil conditioner fo

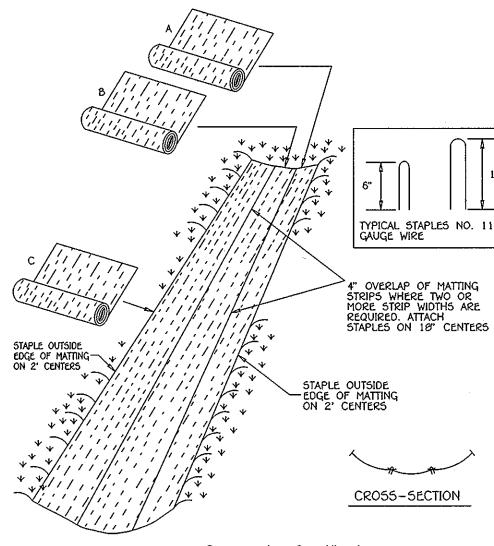
sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements.

a. Composted sludge shall be supplied by. or originate from a person or persons that are permitted (at the time of acquisition of the compost) at the Maryland Department of the Environment under COMAR 26.04.06.

b. Composted sludge shall contain at least 1 percent nitrogen 1.5 percent phosphorus, and 0.2 percent potassium and have a Ph of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.

c. Composted sludge shall be applied at a rate of 1 ton/1,000 sauare feet iv. Composted sludge shall be amended with a potassium

fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.



Construction Specifications

- 1. Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples
- about 4" down slope from the trench. Spacing between staples is 6" 2. Staple the 4" overlap in the channel center using an 10" spacing between staples.
- 3. Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
- 4. Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
- 5. Where one roll of matting ends and another begins, the end o the top strip shall overlap the upper end of the lower strip by 4", shiplap fashion. Reinforce the overlap with a double row of staples
- spaced 6" apart in a staggered pattern on either side. 6. The discharge end of the matting liner should be similarly secured with 2 double rows of staples.
- Note: If flow will enter from the edge of the matting then the area effected by the flow must be keyed-in.

GALVANIZED - CHAIN LINK FENCE OR ALUMINUM WITH I LAYER OF - 8° MINIMUM POSTS FILTER CLOTH CHAIN LINK FENCING FLOW _____ FILTER CLOTH ---34" MINIMUM TRANKING ---- 16" MIN. 15T LAYER OF FILTER CLOTH

10° MAXIMUM

NOTE: FENCE POST SPACING

SHALL NOT EXCEED 1 CENTER TO CENTER

TIKTIKTIKTIK J

GROUND

embed filter cloth o

MINIMUM INTO GROUND

* IF MULTIPLE LAYERS ARE

REQUIRED TO ATTAIN 42"

SURFACE

FLOW

21/2" DIAMETER

TIKTIKTIK STANDARD SYMBOL

FLOW

MINIMUM

7/8/1/8/7/

36" MINIMUM

1. Fencing shall be 42° in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.

The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence. 3. Filter cloth shall be fastened securely to the chain link fence with ties spaced

- every 24" at the top and mid section. 4. Filter cloth shall be embedded a minimum of 8" into the ground.
- 5. When two sections of filter cloth adjoin each other, they shall be overlapped
- 6. Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height 7. Filter cloth shall be fastened securely to each fence post with wire ties o
- staples at top and mid section and shall meet the following requirements fo Geotextile Class F:

20 |bs/in (min.) Test: MSMT 509 Tensile Modulus 0.3 gal/ft /minute (max.) Test: MSMT 322 Flow Rate Filtering Efficiency 75% (min.) Test: MSMT 322 Design Criteria Slope Length Silt Fence Length Slope

Unlimited 0 - 10:1 Unlimited 10:1 - 5:1 200 feet 1,500 fee 5:1 - 3:1 100 feet 1,000 fee 3:1 - 2:1 100 feet 500 feet

Tensile Strength 50 |bs/in (min.) Test: MSMT 509 Slope (maximum) Steepness (maximum) 0 - 10% 10 - 20% 20 - 33% 33 - 50%

Construction Specifications 2. Chain link fence shall be fastened securely to the fence posts with wire ties.

by 6" and tolded.

SEDIMENT CONTROL NOTES

1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY PEPARTMENT OF INSPECTIONS, LISCENSES AND PERMITS, SEDIMENT CONTROL DIMISION PRIOR O THE START OF ANY CONSTRUCTION (313-1055).) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES. DIKES. PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1. b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. 4) ALL SEDIMENT TRAPS/BASING SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD

COUNTY DESIGN MANUAL, STORM DRAINAGE. 5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES. 6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

SITE ANALYSIS: OTAL AREA OF SITE 2.04 ACRES AREA DISTURBED 0.92 ACRES AREA TO BE ROOFED OR PAVED 0.32 ACRES AREA TO BE VEGETATIVELY STABILIZED 0.60 ACRES 1320 CU.YD5 TOTAL FILL 1320 CU.Y05

INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF

IS SHORTER.

PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER

NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY

11) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR

THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER

OFFSITE WASTE/BORROW AREA LOCATION STOCK PILING WILL NOT BE PERMITTED ON SITE. B) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE. 9) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. 10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES. APPROVAL OF THE

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Seedbed Preparation : Loosen upper three inches of soil by raking. discing or other acceptable means before seeding, if not previously

Soil Amendments : Apply 600 lbs, per ocre 10-10-10 fertilizer (14 lbs. oer 1000 so.ft.).

Seeding : For periods March 1 thru April 30 and from August 15 thru lovember 15, seed with 2-1/2 bushels per acre of annual rye (3.2 lbs. per 1000 so.ft.). For the period May 1 thru August 14, seed with 3 lbs. per ocre of weeping lovegrass (0.07 lbs. per 1000 sg.ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching : Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sa.ft.) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed Seedbed Preparation : Loosen upper three inches of soil by raking. discing or other acceptable means before seeding, if not previousl Soil Amendments : In lieu of soil test recommendations, use one of the following schedules :

1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 Ibs. per 1000 sq.ft.) before seeding. Horrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs. per 1000 sq.ft.).

Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Horrow or disc into upper three inches of soil. Seeding : For the period March 1 thru April 30 and from August 1

thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following options: 1) 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring. Use sod.

3) Seed with 60 lbs. per acre Kentucky 31 Tail Fescue and mulch with 2 tons per acre well anchored straw. Mulching : Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on lat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring. Maintenance : Inspect all seeded areas and make needed repairs.

replacements and reseedings.

SEQUENCE OF CONSTRUCTION

1.	OBTAIN GRADING PERMIT	1	DAY
2.	INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN	3	DAY5
3.	CLEAR AND GRUB TO LIMITS OF DISTURBANCE	4	DAYS
4.	INSTALL TEMPORARY SEEDING	2	DAY5
5.	CONSTRUCT BUILDINGS	90	DAY5
6.	FINE GRADE SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPE	14	DAYS
7.	REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMISSION IS GRANTED BY E/S CONTROL INSPECTOR.	7	DAYS